58

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-10-01-01**

Date: 07/10/2022

Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants

Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23

Date of Receipt : 01-10-22

Customer ID : Drain Bottom Raft- 3rd Cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete CL5

Date of test : 07/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft-3rd Cross Road	M20	30/09/2022	07/10/2022	150.72 X 150.27 X 150.51	22649	8.542	414.7	18.3	18.6
2	Drain Bottom Raft-3rd Cross Road	M20	30/09/2022	07/10/2022	151.21 X 151.57 X 149.33	22918	8.433	432.5	18.9	
3	Drain Bottom Raft-3rd Cross Road	M20	30/09/2022	07/10/2022	150.57 X 149.48 X 149.71	22507	8.356	422.0	18.8	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-10-01-01** **Date: 28/10/2022**

Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants

Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23

Date of Receipt : 01-10-22

Customer ID : Drain Bottom Raft- 3rd Cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Raft-3rd Cross Road	M20	30/09/2022	28/10/2022	151.19 X 149.03 X 150.79	22533	8.360	529.8	23.5	23.1
2	Drain Bottom Raft-3rd Cross Road	M20	30/09/2022	28/10/2022	151.53 X 151.22 X 151.59	22914	8.178	508.9	22.2	
3	Drain Bottom Raft-3rd Cross Road	M20	30/09/2022	28/10/2022	151.84 X 149.91 X 150.11	22763	8.355	535.6	23.5	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

56

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-10-12-01** **Date: 17/10/2022**
Project Name	:	PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency	:	Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference	:	EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt	:	12-10-22
Customer ID	:	Drain Side Wall- Muneshwara Layout 2nd Cross Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall-Muneshwara Layout 2nd Cross Road	M20	10/10/2022	17/10/2022	151.46 X 150.16 X 150.07	22743	8.966	420.6	18.5	18.5
2	Drain Side Wall-Muneshwara Layout 2nd Cross Road	M20	10/10/2022	17/10/2022	150.97 X 150.73 X 151.41	22756	8.957	429.2	18.9	
3	Drain Side Wall-Muneshwara Layout 2nd Cross Road	M20	10/10/2022	17/10/2022	151.60 X 149.03 X 149.62	22593	8.185	410.8	18.2	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

55

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-10-12-01** **Date: 07/11/2022**
Project Name	:	PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency	:	Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt	:	12-10-22
Customer ID	:	Drain Side Wall- Muneshwara Layout 2nd Cross Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall-Muneshwara Layout 2nd Cross Road	M20	10/10/2022	07/11/2022	151.34 X 150.41 X 151.66	22764	9.073	526.9	23.1	23.1
2	Drain Side Wall-Muneshwara Layout 2nd Cross Road	M20	10/10/2022	07/11/2022	149.84 X 149.55 X 150.46	22409	8.125	502.1	22.4	
3	Drain Side Wall-Muneshwara Layout 2nd Cross Road	M20	10/10/2022	07/11/2022	151.44 X 150.65 X 151.85	22814	9.047	542.1	23.8	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig. Date BANGALORE

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

54

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-09-16-01** **Date: 22/10/2022**

Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants

Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23

Date of Receipt : 17-10-22

Customer ID : Drain Bottom Raft- Kamath Layout

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/10/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Raft-Kamath Layout	M20	15/10/2022	22/10/2022	150.31 X 150.79 X 150.07	22666	9.058	423.9	18.7	18.6
2	Drain Bottom Raft-Kamath Layout	M20	15/10/2022	22/10/2022	151.75 X 149.82 X 149.05	22735	9.060	412.6	18.1	
3	Drain Bottom Raft-Kamath Layout	M20	15/10/2022	22/10/2022	151.48 X 151.89 X 150.63	23008	8.177	435.7	18.9	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Seal Date BANGALORE

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

53

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-09-16-01** **Date: 12/11/2022**

Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants

Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23

Date of Receipt : 17-10-22

Customer ID : Drain Bottom Raft- Kamath Layout

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Raft-Kamath Layout	M20	15/10/2022	12/11/2022	151.20 X 149.93 X 151.67	22670	8.566	526.3	23.2	23.2
2	Drain Bottom Raft-Kamath Layout	M20	15/10/2022	12/11/2022	150.82 X 149.83 X 151.49	22598	8.577	514.3	22.8	
3	Drain Bottom Raft-Kamath Layout	M20	15/10/2022	12/11/2022	149.59 X 150.89 X 149.34	22572	8.455	533.1	23.6	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

52

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-10-15-01** **Date: 17-10-22**

Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants

Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23

Date of Receipt : 15-10-22

Sample Type : Fine Aggregate (M-Sand)

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 15-10-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	36	36	3.6	96.4	90-100	90-100	90-100	95-100
3	2.36 mm	82	118	11.8	88.2	60-95	75-100	85-100	95-100
4	1.18 mm	310	428	42.8	57.2	30-70	55-90	75-100	90-100
5	600 micron	195	623	62.3	37.7	15-34	35-59	60-79	80-100
6	300 micron	212	835	83.5	16.5	5-20	8-30	12-40	15-50
7	150 micron	125	960	96.0	4.0	0-10	0-10	0-10	0-15
8	Pan	40	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

CIVIL PRO Sig Date BANGALORE

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

51

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-10-15-01** **Date: 17-10-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.94	-
2	Specific Gravity	2.55	-
3	Material finer than 75 micron(%)	6.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

50

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2022-10-15-01 Date: 19-10-22
Project Name	:	PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency	:	Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer Reference	:	EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt	:	15-10-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-10-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	285	285	5.7	94.3	90-100
3	10 mm	2836	3121	62.4	37.6	25-55
4	4.75 mm	1685	4806	96.1	3.9	0-10
5	Pan	194	5000	100	0	

CIVIL PRO Sig. Date BANGALORE

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

49

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-10-15-01 Date: 19-10-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	9.8	
3	Specific Gravity	2.64	-
4	Bulk Density(Loose) (Kg/l)	1.46	-
5	Bulk Density(Compacted) (Kg/l)	1.53	-
6	Water Absorption(%)	0.23	-
7	Aggregate crushing Value(%)	22.4	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.9	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro Sig. Date BANGALORE

R RUDRAPRASAD
Authorized Signatory
Technical Manager

End of Report

AB

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-10-15-01** **Date: 19-10-22**
Project Name	:	PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency	:	Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference	:	EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt	:	15-10-22
Sample Type	:	JSW 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	16-10-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	-
2	Finess by Air permeablity method (m^2/kg,Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	-
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sq Date BANGALORE

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

47

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2022-10-15-01 **Date: 14-11-22**
Project Name	:	PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency	:	Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference	:	EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt	:	15-10-22
Sample Type	:	JSW 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	16-10-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig. Date BANGALORE

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

A6

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-10-20-01** **Date: 24/10/2022**
Project Name	:	PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency	:	Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference	:	EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt	:	20-10-22
Customer ID	:	Drain Bottom Raft- Kamath Layout
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Raft-Kamath Layout	M20	17/10/2022	24/10/2022	149.68 X 149.88 X 151.10	22434	8.313	411.1	18.3	18.7
2	Drain Bottom Raft-Kamath Layout	M20	17/10/2022	24/10/2022	151.56 X 150.07 X 149.75	22745	8.107	429.7	18.9	
3	Drain Bottom Raft-Kamath Layout	M20	17/10/2022	24/10/2022	149.51 X 151.03 X 149.09	22579	8.335	428.3	19.0	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

A5

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-10-20-01** **Date: 14/11/2022**

Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants

Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23

Date of Receipt : 20-10-22

Customer ID : Drain Bottom Raft- Kamath Layout

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Raft-Kamath Layout	M20	17/10/2022	14/11/2022	151.21 X 151.78 X 150.13	22951	8.964	529.2	23.1	22.8
2	Drain Bottom Raft-Kamath Layout	M20	17/10/2022	14/11/2022	150.48 X 150.99 X 151.85	22721	8.832	502.8	22.1	
3	Drain Bottom Raft-Kamath Layout	M20	17/10/2022	14/11/2022	150.35 X 149.33 X 149.98	22452	8.553	524.5	23.4	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

AA

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-10-20-01** **Date: 26/10/2022**

Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants

Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23

Date of Receipt : 20-10-22

Customer ID : Drain Side Wall- Kamath Layout

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall-Kamath Layout	M20	19/10/2022	26/10/2022	150.59 X 151.22 X 149.00	22773	8.596	429.0	18.8	18.7
2	Drain Side Wall-Kamath Layout	M20	19/10/2022	26/10/2022	151.00 X 149.27 X 150.23	22540	8.486	420.8	18.7	
3	Drain Side Wall-Kamath Layout	M20	19/10/2022	26/10/2022	150.94 X 149.32 X 151.87	22540	8.873	417.2	18.5	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig. Date BANGALORE

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

A3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-10-20-01** **Date: 16/11/2022**

Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants

Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-5600045

Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23

Date of Receipt : 20-10-22

Customer ID : Drain Side Wall- Kamath Layout

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall-Kamath Layout	M20	19/10/2022	16/11/2022	151.54 X 151.20 X 151.02	22912	8.863	533.0	23.3	23.1
2	Drain Side Wall-Kamath Layout	M20	19/10/2022	16/11/2022	149.15 X 151.48 X 149.25	22594	8.919	507.8	22.5	
3	Drain Side Wall-Kamath Layout	M20	19/10/2022	16/11/2022	149.03 X 149.06 X 151.44	22214	8.242	520.3	23.4	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

42

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-10-22-01** **Date: 28/10/2022**

Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants

Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23

Date of Receipt : 22-10-22

Customer ID : Drain Bottom Raft- Kachohalli Village

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Raft-Kachohalli Village	M20	21/10/2022	28/10/2022	150.12 X 149.82 X 150.34	22492	8.677	414.8	18.4	18.4
2	Drain Bottom Raft-Kachohalli Village	M20	21/10/2022	28/10/2022	150.49 X 151.52 X 150.44	22802	8.376	413.6	18.1	
3	Drain Bottom Raft-Kachohalli Village	M20	21/10/2022	28/10/2022	150.08 X 149.61 X 151.80	22453	8.873	415.6	18.5	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro Sig. Date. BANGALORE

RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

A1

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2022-10-21-01** **Date: 25-10-22**
Project Name	:	PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency	:	Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference	:	EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt	:	21-10-22
Sample Type	:	Fine Aggregate (M-Sand)
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test	:	21-10-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	72	104	10.4	89.6	60-95	75-100	85-100	95-100
4	1.18 mm	248	352	35.2	64.8	30-70	55-90	75-100	90-100
5	600 micron	245	597	59.7	40.3	15-34	35-59	60-79	80-100
6	300 micron	215	812	81.2	18.8	5-20	8-30	12-40	15-50
7	150 micron	125	937	93.7	6.3	0-10	0-10	0-10	0-15
8	Pan	63	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

A6

CIVIL PRO Sig. Date BANGALORE

A0

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-10-21-01** **Date: 25-10-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.94	-
2	Specific Gravity	2.55	-
3	Material finer than 75 micron(%)	6.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

39

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2022-10-21-01 Date: 25-10-22
Project Name	:	PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency	:	Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer Reference	:	EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt	:	21-10-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-10-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	185	185	3.7	96.3	90-100
3	10 mm	2215	2400	48.0	52.0	25-55
4	4.75 mm	2378	4778	95.6	4.4	0-10
5	Pan	222	5000	100	0	-

CIVIL PRO Sig Date BANGALORE